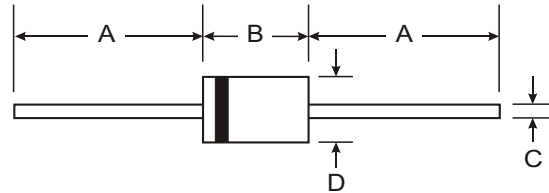


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Features

High Current Capability and Low Forward Drop
High Surge Capacity
Guard Ring for Transient Protection
Low Power Loss, High Efficiency



Mechanical Data

Case: DO-41, Molded Plastic
Plastic Material: UL Flammability
Classification Rating 94V-0
Moisture sensitivity: Level 1 per J-STD-020A
Terminals: Axial lead, Solderable per
MIL-STD-202, Method 208
Polarity: Cathode band
Weight: 0.35 grams (approx.)

DO-41		
Dim	Min	Max
A	25.4	
B	4.1	5.2
C	0.71	0.86
D	2.0	2.7
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25 °C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	SR102	SR103	SR104	SR105	SR106	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RSM}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current @ Lead Temperature (TL) measured 9.5mm lead length	I(AV) @ T _L = 75 C @ T _L = 100 C	1.0			1.0		A
Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25					A
Maximum Forward Voltage @ 1.0A	V _F	0.55		0.60	0.70		V
Maximum Average Reverse Current at Peak Reverse Voltage	I _R @ T _A = 25 C @ T _A = 100 C	1.0 10					mA
Typical Thermal Resistance (Note 1)	R _{JL}	15					K/W
Typical Total Capacitance (Note 2)	C _T	110			80		pF
Storage and Operating Temperature Range	T _J , T _{STG}	-65 to +150					C

Notes: 1. Thermal Resistance from Junction to Ambient with Vertical PC Board Mounting, 1.27mm Lead Length.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

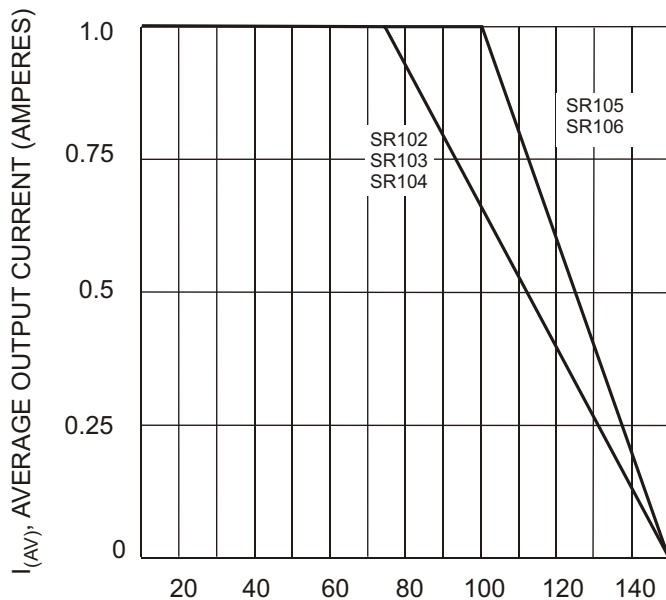


Fig. 1, Forward Current Derating Curve

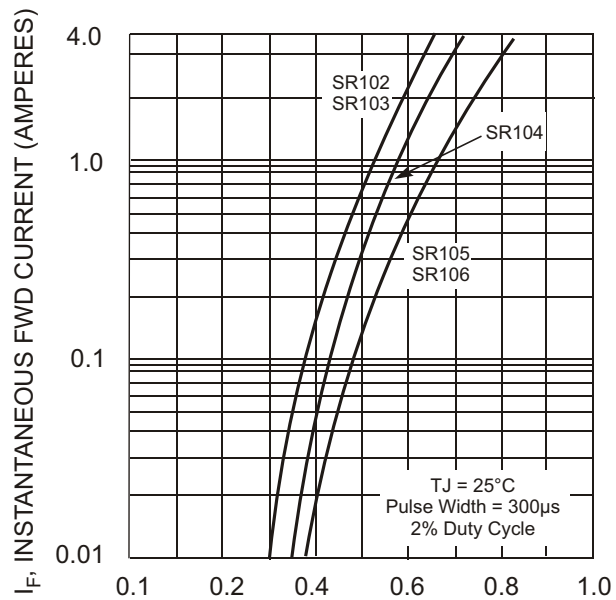


Fig. 2, Typical Forward Characteristics

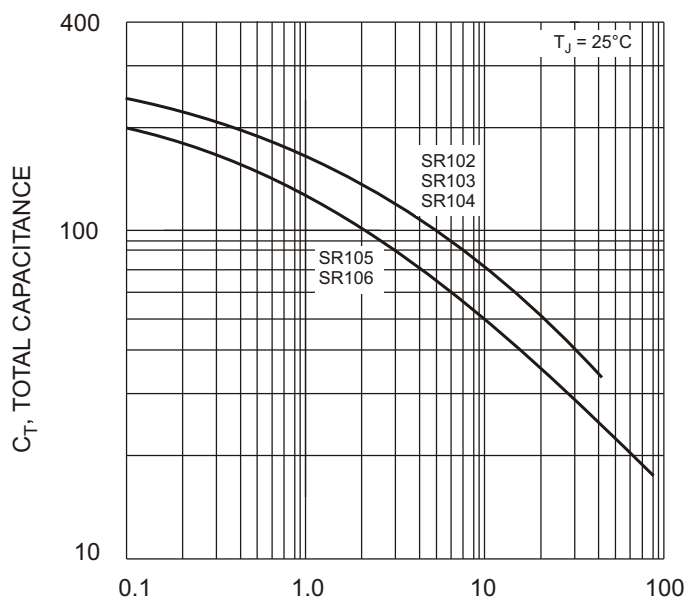


Fig. 3, Typical Total Capacitance

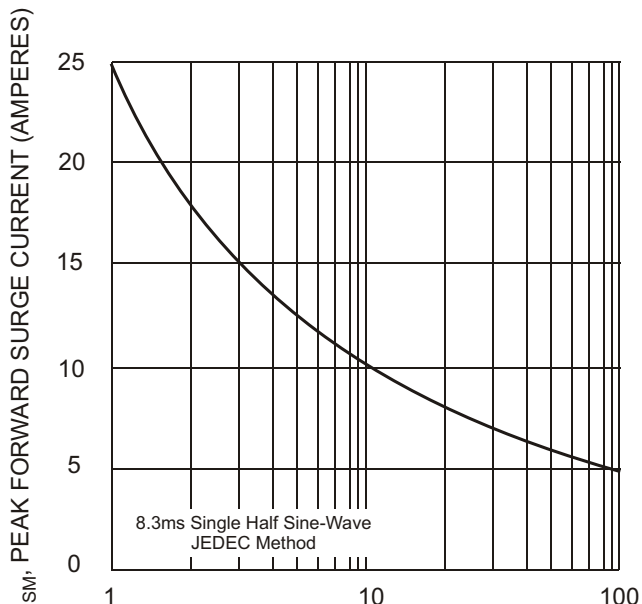


Fig. 4, Max Non-Repetitive Peak Fwd Surge Current

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